

Max. Marks: 10

Date :

Ministry of Maths

9999252424, 9990252424

15 Minutes Self Assessment Test

Time: 15 Minutes

Class-XI th

1. $\lim_{x \rightarrow 0} \frac{(x+1)^5 - 1}{x}$

2. $\lim_{x \rightarrow 0} \frac{\sin ax + bx}{ax + \sin bx} a, b, a+b \neq 0,$

3. Suppose $f(x) = \begin{cases} a+bx, & x < 1 \\ 4, & x = 1 \\ b-ax, & x > 1 \end{cases}$ and if $\lim_{x \rightarrow 1} f(x) = f(1)$ what are possible values of a and b ?

4. If the function $f(x)$ satisfies $\lim_{x \rightarrow 1} \frac{f(x) - 2}{x^2 - 1} = \pi$, evaluate $\lim_{x \rightarrow 1} f(x)$.

H.O. MINISTRY OF MATHS Near KUBER SWEET SHOP BABARPUR ROAD, VASHI STHA CLASSES MANSAROVER PARK, 260 CHANDRALOK SHAHDARA, DTA LAL BAGH, Ph: 999925 24 24, 9990 25 24 24, 011-22 13 13 13, 011 22 32 42 52

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